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Notice of Allowability	Application No.	Applicant(s)
	09/832,232	YAMAMOTO ET AL.
	Examiner	Art Unit
	Jean E. Lesperance	2629
The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.31	G (OR REMAINS) CLOSED in this apply or other appropriate communication RIGHTS. This application is subject to	plication. If not included will be mailed in due course. <b>THIS</b>
1. This communication is responsive to the amendment filed	October 19, 2006.	
2.  The allowed claim(s) is/are <u>3, 5, 10-13 and 38-43, and re</u>	numbered as 1-12.	
<ul> <li>3.  Acknowledgment is made of a claim for foreign priority u</li> <li>a)  All b)  Some* c)  None of the:</li> <li>1.  Certified copies of the priority documents have</li> </ul>		
2.   Certified copies of the priority documents have	e been received in Application No	·•
<ol><li>Copies of the certified copies of the priority do</li></ol>	ocuments have been received in this	national stage application from the
International Bureau (PCT Rule 17.2(a)).		
* Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		complying with the requirements
4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which giv		
5. CORRECTED DRAWINGS ( as "replacement sheets") must	st be submitted.	
(a) Including changes required by the Notice of Draftspers	son's Patent Drawing Review (PTO-	948) attached
1) 🗌 hereto or 2) 🔲 to Paper No./Mail Date		
<ul><li>(b) ☐ including changes required by the attached Examiner Paper No./Mail Date</li></ul>	's Amendment / Comment or in the C	office action of
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in the same of		
6. DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT	osit of BIOLOGICAL MATERIAL n FOR THE DEPOSIT OF BIOLOGICA	nust be submitted. Note the AL MATERIAL.
Attachment(s)	- 50	
<ol> <li>Notice of References Cited (PTO-892)</li> <li>Dotice of Draftperson's Patent Drawing Review (PTO-948)</li> </ol>	5. Notice of Informal P	• •
	<ol> <li>Interview Summary Paper No./Mail Dat</li> </ol>	e .
Information Disclosure Statements (PTO/SB/08),     Paper No./Mail Date	7. Examiner's Amenda	nent/Comment) /
Examiner's Comment Regarding Requirement for Deposit of Biological Material	<ol> <li>8.</li></ol>	nt of Reasons for Allowance
	<del></del>	RICHARD HJERPE
		PERVISORY PATENT EXAMINER TECHNOLOGY CENTER 2600

U.S. Patent and Trademark Office PTOL-37 (Rev. 08-06)

## **DETAILED ACTION**

1. The amendment filed October 19, 2006 is entered and claims 3, 5, 10-13 and 38-43 are pending.

## Allowable Subject Matter

- 2. Claims 3, 5, 10-13 and 38-43 are allowed over prior art.
- 3. The following is an examiner's statement of reasons for allowance: the claimed invention is directed to a method of driving an image display.

Independent claim 3 identifies a uniquely distinct feature "wherein the pulse width of a supplied voltage to the signal lines in the conduction period of the pixel switching elements when a positive polarity voltage is applied to the pixel electrodes is different from the pulse width of a supplied voltage to the signal lines in the conduction period of the pixel switching elements when a negative polarity voltage is applied to the pixel electrode, when the same tone is being displayed".

Independent claim 5 identifies a uniquely distinct feature "wherein, with respect to an image display device having the common electrode for applying a common potential to the pixels and having a plurality of scanning lines for driving the pixel switching elements, liquid crystal is displaced according to a potential difference between the common electrode and the pixel electrodes so as to carry out display, and an amplitude of a voltage supplied to the signal lines is equal to an amplitude of a voltage supplied to the common electrode".

Independent claims 10 and 11 identify a uniquely distinct feature "wherein tones are displayed by shifting phases of waveform of the signal lines and the scanning lines, and polarities of pixels in a signal line direction are inverted alternately and wherein a potential difference between the potential of the signal line and the potential of the common electrode is maximum at an end of one horizontal period".

Independent claims 12 and 13 identify a uniquely distinct feature "wherein tones are displayed by shifting phases of waveform of the signal lines and the scanning lines, and polarities of pixels in a signal line direction are inverted alternately and wherein a potential difference between the potential of the signal line and the potential of the common electrode is minimum at an end of one horizontal period".

Independent claim 38 identifies a uniquely distinct feature "a phase of the common electrode is constant with respect to a scanning signal, and tones are displayed by shifting phases of waveforms of the signal lines and the scanning lines so that the potential of the signal lines is switched between high level and low level after an elapsed time period which varies depending on the tone when the potential of the scanning line is ON".

Independent claim 39 identifies a uniquely distinct feature "wherein the waveform of the common electrode is off-phase by a certain degree with respect to the waveform of the scanning lines, and wherein tones are displayed by shifting phases of waveforms of the signal lines and the common electrode so that the potential of the signal lines is switched between high level and low level after an elapsed time period which varies depending on the tone when the potential of the scanning lines is ON".

Independent claims 40-43 identify a uniquely distinct feature "the signal line driving section supplies a signal, which is created by shifting a phase of a voltage waveform whose polarity is inverted per one horizontal period so that the potential of the signal lines is switched between high level and low level after an elapsed time period which varies depending on the tone when the potential of the scanning lines is ON, with respect to a phase of a voltage waveform of the scanning lines, to the signal lines".

The closest art, Kikkawa and Takabatake as discussed in the previous office action, either singularly or in combination, fail to anticipate or render obvious the above limitations obvious.

4. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jean Lesperance whose telephone number is (571) 272-7692. The examiner can normally be reached on from Monday to Friday between 10:OOAM and 6:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Richard Hjerpe, can be reached on (571) 272-7691.

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks

Washington, D.C. 20231

Page 5

## or faxed to:

(571) 273-8300 (for Technology Center 2600 only)

Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal drive, Arlington, VA, Sixth Floor (Receptionist).

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the technology Center 2600 Customer Service Office whose telephone number is (703) 306-0377.

Jean Lesperance

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Art Unit 2629

Date 11/3/2006

SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2600